

ISLAMBEKOV, R.K.; BEKMUKHAMEDOVA, Z.U.; TURAKULOV, Ya.Ka.

Pathogenesis of thyrotoxic crises following strumectomy and  
during radioiodine therapy of toxic goiter. Med. zhur. Uz. b.  
no.6:3-7 Je'63 (MIRA 17:3)

1. Iz Instituta krayevoy eksperimental'noy meditsiny AMN SSSR  
(dir. - prof. G.M. Makhkamov).

AULOV, D.M.; ISLAMBEKOV, R.K.; TURAKULOV, Ya.Kh.; IOFFE, K.G.

Effect of epiphysectomy on the morphology and functional activity of the thyroid gland. Uzb.biol.zhur. 7 no.2:16-20'63.  
(MIRA 16:8)

1. Institut krayevoy eksperimental'noy meditsiny AN UzSSR.  
(THYROID GLAND) (PINEAL BODY SURGERY)

ISLAMKHODZHAYEV, S.S.

Brown Latvian cattle in the Uzbek S.S.R. Zhivotnovodstvo 21 no.2:56-58  
F '59. (MIRA 12:3)

1. Institut zoologii AN Uzbekekoy SSR.  
(Uzbekistan--Cattle breeds)

ISLAMKHODZHAYEV, S.

Losses could have been smaller. Fin. SSSR 38 no.1:46-47 Ja '64.  
(MIRA 17:2)

1. Starshiy ekonomist Ministerstva finansov UzSSR.

VIRSKAYA, G.M.; AKHMEDOV, K.S.; ISLAMKHODZHAYEVA, A.

Temperature dependence of the swelling of polyvinyl chloride in  
diethyl oxalate and its mixture with dichloroethane. Nauch.trudy  
TashGU no.257.Khim.nauki no.12:78-81 '64.

(MIRA 28:8)

MAKHNEV, S.G.; ARGUNOV, Ye.I.; ISLAMKULOV, A.M.

Metal detector for the control of asbestos ores. Trudy NIIsbest  
no.2:110-116 '62. (MIRA 16:12)

ISLAMOV, A.

~~More attention to mass work.~~ Radio no.7:13 J1'55. (MLRA 8:10)

1. Instruktor komiteta Dobrovol'nogo obshchestva sodeystviya  
armii, aviatsii i flotu Bashkirskoy ASSR  
(Ufa--Radio clubs)

ISLAMOV, A.

A strong building materials and equipment production base  
guarantees success. Sel'. stroi. 16 no.1:4-7 Ja '62.

(MIRA 16:1)

1. Glavnyy inzh. tresta "Sel'stroy" Checheno-Ingushskoy ASSR.  
(Chechen-Ingush A.S.S.R.--Construction industry)



RAYKHMAN, A.Z., inzh.; ISLAMOV, A.A., tekhn.

Preparing standard specimens for the uptrasonic control of weldments. Svar. proizv. no.1:31-32 Ja '64. (MIRA 17:1)

1. Ural'skoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.

S/056/62/043/003/011/063  
B125/B102

AUTHORS: Kaipov, D. K., Shubnyy, Yu. K., Begzhanov, R. B., Islamov, A. A.

TITLE: Resonance scattering of  $\gamma$ -quanta from  $\text{Sn}^{116}$  nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 808-812

TEXT: The method of resonance scattering was applied to 1290-kev  $\gamma$  quanta from the  $\text{Sn}^{116}$  nuclei of a gaseous  $\text{In}^{116}\text{mCl}_3$  source (Fig. 1) to determine the lifetime of the first excited 1.29-Mev level. A similar value is obtained by the method of Coulomb excitation. The  $\text{InCl}_3$  produced from enriched metallic indium was sublimated into a quartz ampoule, which was then evacuated and subjected for 1 hr to the thermal neutron flux ( $\sim 10^{13}$ ) of a BBP-C (VVR-S) reactor. Following this it was heated to 500-550°C for 1 to 2 hrs so that  $\text{InCl}_3$  sublimed ( $\sim 0.7$  atm). The  $\gamma$ -quantum scattering was measured by two symmetrically arranged scintillation

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Resonance scattering of ...

S/056/62/043/003/011/063  
B125/B102

spectrometers (Fig. 1). The time dependence of the counting rate was determined by using first a solid source and then a heated gaseous source in 28 series of measurements. With cold sources the increase in the counting rate with time is approximately exponential and with gaseous sources almost exactly so. Owing to the resonance effect the transition of  $\text{InCl}_3$  into the gaseous state creates a peak at 1.29 Mev in the scattered radiation spectrum. Allowing for the self-absorption of the  $\gamma$ -quanta in the scatterer and their angular distribution the mean value  $\bar{\sigma}$  of the resonance cross section is  $\bar{\sigma} = (5.31 \pm 0.50) \cdot 10^{-26} \text{ cm}^2$ . No  $\beta\gamma$  and no  $\gamma\gamma$  correlations are assumed in the cascade, and the free  $\text{In}^{116\text{m}}$  atom is repelled. Taking account of all cascades  $N(E_p) = 0.0127 \text{ ev}^{-1}$  follows for the microspectrum. From this value, and from the experimentally determined value of  $\bar{\sigma}$ , the lifetime of the 1.29-Mev level is  $\tau_\gamma = (1.8 \pm 0.27) \cdot 10^{-12} \text{ sec}$  (transition  $2^+ \rightarrow 0^+$ ). For the same lifetime the method of self-absorption gives  $\tau_\gamma = (6.4 \pm 2.7) \cdot 10^{-13} \text{ sec}$ . This value agrees with that obtained from the Coulomb excitations. The considerable divergence between the lifetimes found by the two methods

Card 2 *MS*

S/056/62/043/003/011/063  
B125/B102

Resonance scattering of ...

is due to the effect of the chemical bonds in the molecule on the energy distribution of the  $\gamma$ -quanta. The E2-transition with  $E_\gamma = 1290$  kev (solid source) is an accelerated transition with the acceleration factor 10.5. There are 5 figures.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Institute of Nuclear Physics of the Academy of Sciences Kazakhskaya SSR). Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR)

SUBMITTED: April 19, 1962

Fig. 1. Schematic drawing of the experimental arrangement.  
Legend to Fig. 1: (1) source; (2) electric furnace; (3), (4) Sn and Cd absorber (in experiments with self-absorption); (5) lead cone; (6), (9) Sn and Cd scatterer; (7) NaJ (Tl) crystal, (8) photomultiplier.

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BEGZHANOV, R.B.; KAIPOV, D.K.; SHUBNYY, Yu.K.; ISLAMOV, A.A.

Lifetime of the 1.29 Mev. level in  $\text{Sn}^{116}$ . Izv. AN Uz.SSR. Ser.  
fiz.-mat. nauk 7 no.5:45-50 '63. (MIRA 17:8)

1. Institut yadernoy fiziki AN UzSSR.

L 17128-63 EWT(m)/BDS AFFTC/ASD S/0166/63/000/002/0049/0055 55  
 54  
 ACCESSION NR: AP3000220

AUTHORS: Begzhanov, R. B.; Islamov, A. A.; Kaipov, D. K.; Shubnyy, Yu. K.

TITLE: Determining the half-life of  $\text{Fe}^{56}$  nucleus

SOURCE: AN UzSSR. Izv. Seriya fiziko-matem. nauk, no. 2, 1963, 49-55

TOPIC TAGS: resonant scattering, half-life, decay, gaseous source

ABSTRACT: The method of resonant scattering was used to determine the half-life of the first excitation state of  $\text{Fe}^{56}$  at 0.845 MeV energy level. The compound  $\text{MnCl}_2$  was used as the gaseous source scatterer (with  $\text{Mn}^{56}$  half-life of 2.56 hrs). To measure self-absorption with good accuracy the experiment was set up in both plane and curved scattering geometries. Compared to a solid Cu-scatterer an increase in count was obtained from the gaseous scatterer. This increase was 10-12% for the curved geometry and 18-20% for the plane case. Moreover, the plane geometry provided a better screening of nonresonant scattering in the energy range 0.785-0.955 MeV. The half-life thus determined was  $(9.6 \pm 1.8) \cdot 10^{-12}$  seconds. Orig. art. has 5 figures, 2 formulas, and 2 tables.  
 ASSN: Institute of Nuclear Physics, Academy of Sciences, Uzbek SSR.

Card 1/8 /

S/056/63/044/001/026/067  
B104/B144

AUTHORS: Begzhanov, R. B., Islamov, A. A., Kaipov, D. K.,  
Shubnyy, Yu. K.

TITLE: Lifetime of the 0.845 Mev level of the  $\text{Fe}^{56}$  nucleus

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 1, 1963, 137-141

TEXT: Resonance scattering of  $\gamma$ -quanta on the 0.845 Mev level of  $\text{Fe}^{56}$  is investigated using a ring and a plane scatterer and a self-absorption method with a gaseous  $\text{MnCl}_2$  source ( $T_{1/2}$  of  $\text{Mn}^{56}$  being 2.56 hrs). To determine the lifetime the mean cross section of resonance scattering was measured, and the energy distribution of the  $\gamma$ -quanta emitted was calculated theoretically. The annular Fe scatterer was of 37.5 cm in diameter, 13.5 cm high and 0.9 cm thick. The plane scatterer was a plate (30-30-1 cm), the mean scattering angle was  $104^\circ$ . The plane scatterer gave better screening of the source than the ring scatterer, and this considerably reduced the non-resonance scattering in the energy range of 0.785-0.955 Mev. To reduce the effect of Compton quanta, the

Card 1/2

ERIKHONOV, R. B.; ISLAMOV, A. A.; MIRZAHIDOV, M. M.

"Resonance Scattering of Gamma Rays on Nuclei  $Si^{28}$ ,  $Zn^{66}$ ,  $Ce^{140}$ ."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi,  
14-22 Feb 64.

IYAF, AN UzSSR (Inst Nuclear Physics, AS UzSSR)



ACCESSION NR: AP4031182

S/0056/64/046/004/1486/1488

AUTHOR: Begzhanov, R. B.; Islamov, A. A.

TITLE: Resonance scattering of Gamma quanta by Ce-140 nuclei

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1486-1488

TOPIC TAGS: cerium 140, lanthanum 140, lanthanum 140 decay, resonant scattering, gamma quantum scattering, quadrupole transition, excited state lifetime

ABSTRACT: Resonant scattering of 1597-keV  $\gamma$  quanta emitted by  $Ce^{140}$  nuclei resulting from the decay of  $La^{140}$  was investigated by an experimental procedure analogous to that used by the authors earlier (ZhETF v. 44, 137, 1963). The self-absorption method was used to determine the lifetime of the excited state. The width of the 1597-keV level was found to be  $(3.07 \pm 1.14) \times 10^{-3}$  eV, corresponding to a lifetime of  $(2.15 \pm 0.80) \times 10^{-13}$  sec for the lifetime of the 1597-keV excited state of  $Ce^{140}$ . The value of the lifetime agrees well with data on Coulomb excitation. Since calculations by the Weisskopf-Moszkowski formula give a lifetime of  $17.8 \times 10^{-13}$  sec, the 1597-keV quadrupole E2 transition in the  $Ce^{140}$  is accelerated by a factor of 8, indicating the collective nature of the excitation. Original article has: 2 figures.

Card

1/4

ACCESSION NR: AP4031182

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Uzbekskoy SSR (Institute of Nuclear Physics, Academy of Sciences Uzbek SSR)

SUBMITTED: 09Oct63

DATE ACQ: 07May64

ENCL: 02

SUB CODE: NP

NR REF SOV: 003

OTHER: 001

Card 2/4

ACCESSION NR: AP4031182

ENCLOSURE: 01

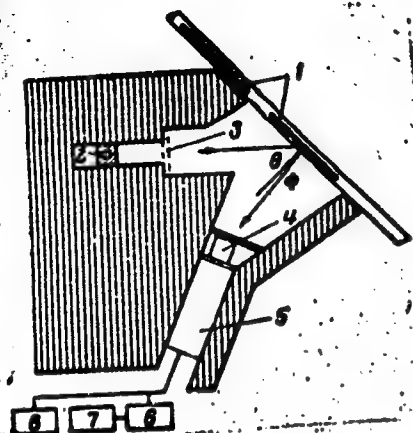
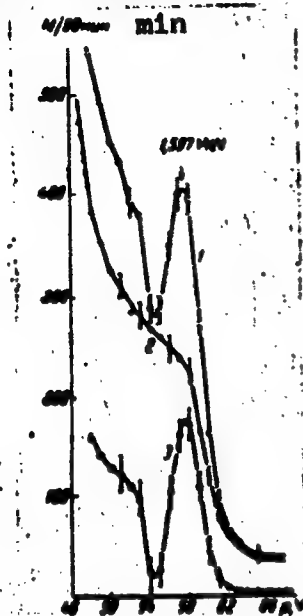


Diagram of experimental setup. 1 - scatterers on moving slides, 2 - source in aluminum can, 3 - position of absorber (in experiment with self-absorption), 4 - NaI(Tl) crystal, 5 - photomultiplier, 6 - single-channel pulse analyzer, 7 - counting unit, 8 - 100-channel pulse analyzer (AI-100)

Card 3/4.

ACCESSION NR: AP4031182

ENCLOSURE: 02



Resonance scattering of  $\gamma$  quanta on  $\text{Ce}^{140}$  nuclei: 1 - spectrum of scattered radiation from  $\text{CeO}_2$  scatterer, 2 - spectrum of radiation scattered from  $\text{BaO}$ , 3 - difference between 1 and 2

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WRITE BELOW THIS LINE

POSTCARD

ACCESSION NR: AP4043657

S/0056/64/047/002/0768/0770

AUTHORS: Begzhanov, R. B.; Islamov, A. A.

TITLE: Resonance scattering of gamma quanta by Sr-88 nuclei

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 768-770

TOPIC TAGS: excited state, half life, strontium, gamma scattering, resonance scattering, radiation spectrum, even even nucleus

ABSTRACT: A self-absorption method (F. R. Metzger, Phys. Rev. v. 110, 123, 1958) was used to determine the true value of the lifetime of the excited state of Sr<sup>88</sup> produced by resonant scattering of gamma quanta using a target in the form RbNO<sub>3</sub>. The incident neutron flux was  $1.8 \times 10^{13}$  neutron-cm<sup>-2</sup> sec<sup>-1</sup> from the VVR-S reactor of IYAF AN UzSSR. The experimental geometry was described earlier (ZhETF, v. 44, 137, 1963). The resonance effect was determined by analyzing the spectrum of scattered radiation, registered by a 100-channel

Card 1/2

ACCESSION NR: AP50110- UR/0166/65/000/002/0067/0011

AUTHORS: Begzhanov, R. B.; Islamov, A. A.

TITLE: Resonant scattering of gamma quanta by Ce-140 nuclei

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, 1979, 1, 1-2, 1-2.

TOPIC TAGS: gamma scattering, resonant scattering, excited state, 1597 keV

ABSTRACT: Because of some contradictions in the previously reported values of the lifetime of the 1597 keV first excited state of  $^{140}\text{Ce}$ , the authors have measured the lifetime of this state using a  $^{140}\text{La}$  (40 hours lifetime) and the  $^{140}\text{Ce}$  source. The source was exposed to a beam of  $1.5 \times 10^{10}$  gamma quanta from the reactor of Institut yadernoy fiziki (Institute of Nuclear Physics, AN UzSSR). The source activity at the start of the

Cord 1/3

1 02205-65

ACCESSION NR: AF5011675

measurement was 300 mCu for the solid source and 200 mCu for the liquid source. The experimental set-up is shown in Fig. 1 of the Enclosure. The value of the lifetime was determined from the decrease in the effect produced by a resonant absorber placed between the source and the scatterer. The value obtained was  $(2.15 \pm 0.80) \times 10^{13}$  sec. This value is in good agreement with data obtained elsewhere on the lifetime of the  $^{60}\text{Co}$  isotope with the empirical formula given by L. G. G. (Phys. Lett., v. 1, 48, 1962). Original article has: 3 figs.

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics, AN UzSSR)

SUBMITTED: 02Mar64

ENCL: 01

SUB CODE: NP

NR REF SOV: 003

OTHER: 003

Card 2/3

ENCLOSURE

ACCESSION NR: AP5011675

ENCLOSURE: 01

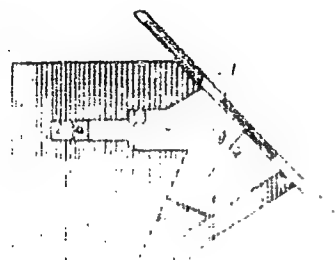


Fig. 1. Diagram of experimental set-up.

1 - Scatterers on moving slides, 2 - source in aluminum container, 3 - position of absorber (in self-absorption experiment), 4 - NaI(Tl) crystal, 5 - photomultiplier, 6 - single-channel pulse



analyzer, 7 - counter, 8 - All100 pulse-height  
analyzer.

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ACC NR: AP7013697

SOURCE CODE: UR/0367/67/005/002/0250/0254

AUTHOR: Begzhanov, R. B.; Islamov, A. A.; Starodubtsev, S. V. -- Starodubcev, S. V.

ORG: Nuclear Physics Institute, AN UzSSR (Institut yadernoy fiziki AN UzSSR)

TITLE: Nuclear resonance fluorescence of  $\text{Sm}^{152}$ ; Nature of the 963 keV (1-) level

SOURCE: Yadernaya fizika, v. 5, no. 2, 1967, 250-254

TOPIC TAGS: resonance scattering, nuclear resonance, Gamma quantum, even even nucleus, samarium, fluorescence

SUB CODE: 20

ABSTRACT: The resonance scattering of  $\gamma$ -quanta is used to investigate the 963 keV 1- level in  $\text{Sm}^{152}$ . The use of low temperatures (78° K) enhanced the absorption effect and made it possible to determine with good accuracy the life time  $\tau = (5.15 \pm 0.50) \times 10^{-14}$  sec of the level by the self-absorption method. An attempt is made to find certain regularities in the behaviour of the nuclear matrix elements and the probabilities of E1 transitions in even-even nuclei. Orig. art. has: 2 figures, 2 formulas and 2 tables. [Based on authors' Eng. Abst.] [JPRS: 40570]

Card 1/1

MAVLIYANOV, G.A.; MIRZAYEV, S.Sh.; ISLAMOV, A.I.; KENESARIN, H.A.,  
otv.red.; ASTAKHOV, A.N., red.; KARABAYEVA, Kh.U., tekhn.red.

[Underground waters and the properties of rocks in the  
Tashkent region] Podzemnye vody i fiziko-mekhanicheskie svoi-  
stva gornyykh porod Pritashkentskogo raiona. Tashkent, Izd-  
vo AN UzSSR, 1963. 177 p. (MIRA 16:12)

1. Chlen-korrespondent AN Uzbekskoy SSR (for Kenesarin).  
(Tashkent Province—Water, Underground)  
(Tashkent Province—Engineering geology)

MAVLYANOV, G.A., akademik, otv. red.; KENESARIN, N.A., zam. otv. red.; KRYLOV, M.M., prof., zam. otv. red.; GRAFUROV, V.G., kand. geol.-min. nauk, red.; KHASANOV, A.S., kand. geol.-min. nauk, red.; KHODZHIBAYEV, N.N., kand. geol.-min. nauk, red.; IVANOVA, M.F., kand. geol.-miner. nauk, red.; ISLAMOV, A.I., kand. geol.-min. nauk, red.; SULTAN-KHODZHAYEV, A.N., red.; ASTAKHOV, A.N., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Conditions in Uzbekistan from the point of view of hydrogeology and engineering geology] Gidrogeologicheskie i inzhenerno-geologicheskie uslovia Uzbekistana. Tashkent, Vol.1. 1963. 194 p. (MIRA 16:8)

1. Akademiya nauk Uzbekskoy SSR. Tashkent. Institut gidrogeologii i inzhenernoy geologii. 2. AN Uzb.SSR (for Mavlyanov).
3. Chlen-korrespondent AN Uzb.SSR (for Kenesarin).  
(Uzbekistan--Water, Underground)  
(Uzbekistan--Engineering geology)

ISLAMOV, A.I.; KADYROV, E.V.

Changes of some physicochemical properties of loess after settling.  
Uzb.geol.zhur. 7 no.2:44-52 '63. (MIRA 17:2)

1. Institut gidrogeologii i inzhenernoy geologii AN UzSSR.

KARPOV, P.M.; ISLAMOV, A.I., kand. geol.-min. nauk, otv. red.;  
NURATDINOVA, M.R., red.

[Subsidence phenomena in the virgin lands of the Golodnaya  
Steppe] Prosadochnye iavleniia na tselinnykh zemliakh  
Golodnoi stepi. Tashkent, Izd-vo "Nauka" Uzbekskoi SSR,  
1964. 188 p. (MIRA 17:6)

KARIMDZHANOV, A.R.; SADYKOV, A.S.; ISMAILOV, A.I.

Composition of tanning materials in cotton infected by *Verticillium*  
dahliae wilt. Nauch.trudy TashGU no.263.Khim.nauki no.13:98-103 '64.  
(MIRA 18:8)

SADYKOV, A.S.; ISMAILOV, A.I.; MAVLYANOVA, Yu.U.

Formation of gossypol in cotton. Nauch.trudy TashGU no.253.Khim.  
nauki no.13:104-108 '64. (MIRA 18:8)



SADYKOV, A.S.; ISMAILOV, A.I.; ISKANDAROVA, D.

Effect of a presowing irradiation of seeds on the dynamics of  
gossypol accumulation. Nauch.trudy TashGU no.263.Khim.nauki  
no.13:109-111 '64.

(MIRA 18:8)

MANEV, M., GABRILOV, A.S.; ISMAILOV, A.I.

Method of preparation and purification of artificial gossypurpurin.  
Nauch.trudy TashGU no.263.Khim.nauki no.13:112-116 '64.

New methods of extraction of natural gossypurpurin. Ibid.:117-121  
(MIRA 18:8)

~~ISLAMOV, B.~~ (Ufa); URIN, I. (Dnepropetrovsk); KROSHCHKIN, V. (g. Yegor'yevsk);  
~~KRAVTSEV, A.~~ (Bryansk)

In trade-union organizations. Sov. profsoiuzy 6 no.1:95 Ja '58.  
(MIRA 11:1)

(Trade unions)

ISLAMOV, BEYUK-AGA MAMED-KULI OGLEY

ISLAMOV, BEYUK-AGA MAMED-KULI OGLEY -- "TECHNIQUE OF MODERN NET CAST FISHING FOR HERRING IN THE HERRING REGIONS OF AZERBAIDZHAN," SUB 23 JUN 52, MOSCOW TECHNICAL INST OF FISH INDUSTRY AND ECONOMY IMENI A. I. MIKOYAN (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

ARTEMOV, K.P.; GOL'DBERG, V.Z.; ISLAMOV, B.I.; RUDAKOV, V.P.; SERIKOV, I.N.

Elastic scattering of  $\text{He}^3$  ions on  $\text{Be}^9$ ,  $\text{N}^{14}$ , and  $\text{O}^{16}$ . Izv. fiz.

1 no.4:629-632 Ap '65.

(MIRA 18:5)

ARTEMOV, K.F.; GOLDBERG, V.Z.; ISLAMOY, L.I.; KUTUSOV, A.; SERIKOV, I.I.

The  $(\text{He}^3, \alpha)$  reaction on  $\text{Be}^9$ ,  $\text{B}^{10}$ ,  $\text{C}^{12}$ ,  $\text{N}^{14}$ ,  $\text{O}^{16}$ , 1 no.6:  
1019-1024 Je '65. (MIRA 18:6)

ARIFOV, U.A.; AYUKHANOV, A.Kh.; ISLAMOV, I.I., chlen-korrespondent.

Modernized drying cabinet. Dokl.AN Uz.SSR no.8:30-33 '49. (MLBA 6:5)

1. Fiziko-tekhnicheskiy institut AN Uz.SSR (for Arifov, Ayukhanov).
2. Akademiya Nauk Uzbekskoy SSR (for Islamov). (Drying apparatus)

VEKSLER, V.Ia.; KLEYN, G.A.; ISLAMOV, I.I., chlen-korrespondent.

Secondary emission from surfaces of nickel and graphite caused by bombardment with positive mercury ions. Dokl.AN Uz.SSR no.12:15-18 '49.

(MLRA 6:5)

1. Fiziko-tekhnicheskiy institut AN Uz.SSR (for Vekaler, Kleyn).
2. Akademiya Nauk Uzbekskoy SSR (for Islamov). (Collisions (Nuclear physics))



ISLAMOV, I.I.

Electrophoretic examination of blood proteins and edematous fluid in experimental pulmonary edema in dogs. Dokl.AN Tadzh.SSR no.12:65-69 '54.(MIRA 9:9)

1.Kafedra patologicheskoy fiziologii Stalinabadskogo gosudarstvennogo meditsinskogo instituta imeni Avitsenny.  
(EDEMA) (BLOOD PROTEINS)

ISLAMOV, I. I.

USSR/Medicine - Physiology

Card 1/1 : Pub. 22 - 40/44

Authors : Islamov, I. I.

Title : Electrophoretic study of blood albumina and discharge fluid during experimental emphysema of dogs

Periodical : Dok. AN SSSR 97/6, 1089-1092, Aug 21, 1954

Abstract : The importance of studying the composition of exudations and transudations for determining the pathogenesis of inflammation and edema, is explained. The method of electrophoretic investigation of blood albumina and discharge fluid during experimental emphysema of animals, is described. Seven references: 6-USSR and 1-USA (1935-1953). Tables.

Institution : The Avitsenna State Medical Institute, Stalinabad

Presented by : Academician A. I. Abrikosov, May 14, 1954

ISLANOV, I. I.

"Use of Marked Atoms in the Study of Processes of Resorption from the Normal and the Inflamed Skin." Stalinabad State Medical Inst imeni Abuali ibn-Sina (Avicenna), Stalinabad, 1955.  
(Dissertation for the Degree of Candidate in Medical Sciences)

SO: M-955, 16 Feb 56

ISLAMOV, I.-I.

Biological significance of inflammation; resorption of potassium  
cyanide from a focus of inflammation; Trudy Stal, med, inst. 21:  
141-146 '56 (MIRA 11:8)

(INFLAMMATION)

(CAPILLARIES--PERMEABILITY)

ISLAMOV, I.I., MEDNIK, G.I.

The barrier function of a focus of inflammation. Trudy Stal.med.  
inst. 21:257-258 '56 (MIRA 11:8)

(CAPILLARIES--PERMEABILITY)  
(INFLAMMATION)

ZABLUDSKIY, B.D., ISLAMOV, I.I.

Studying capillary blood circulation in the human skin by using  
tagged atoms. Trudy Stal.med.inst. 21:259-261 '56 (MIRA 11:8)  
(SKIN--BLOOD SUPPLY)

ISIAMOV, I.I.

Lymph circulation rate in a focus of inflammation. Biol. eksp.  
biol. med. 47 no.5:51-53 My '59. (MIRA 12:7)

1. Iz kafedry patologicheskoy fiziologii Stalinabadskogo meditsinskogo  
instituta i kafedry anatomii i fiziologii Tadzhikskogo sel'skokhozyay-  
stvennogo instituta (Nauchnyy rukovoditel' - prof. I.A. Gyvin). Pred-  
stavlena deystvitel'nyy chlenom AMN SSSR A.Ye. Braunshteynom).

(INFLAMMATION, exper.

lymph circ. rate in focus of inflamm (Rus))

(LYMPH,

circ. rate in focus of exper. inflamm. (Rus))

ISLAMOV, I. I., MAKAROVA, A. V., and GORPUNOVA, N.A. ( Candidate of Medical Sciences, ~~Assistant, Tadzhik Institute, Candidate of Agricultural Sciences~~)

The effect of antobrucellosis vaccination on albumin and albumin blood fractions.

Veterinariya vol. 38, no. 9, September 1961, pp. 27.

*Cand. Med. Sci*



GORBUNOVA, N.A., kand. sel'skokhoz. nauk; ISLAMOV, I.I., kand. med.  
nauk; MAKAROVA, A.V., assistant

Effect of vaccination against brucellosis on blood proteins  
and protein fractions. Veterinariia 38 no.9:27-29 S '61.  
(MIRA 16:8)

1. Tadzhikskiy sel'skokhozyaystvennyy institut.

ISIAMOV, Kh.B., inzh.

Reduce delays and costs of mine building. Shakht.stroi.  
no.1:4-5 Ja '60. (MIRA 13:5)

1. Donetskii nauchno-issledovatel'skiy institut nadshakhtnogo  
stroitel'stva.  
(Mining engineering)

ISLAMOV, Khoze Bulatovich; GORODNICHEV, Vasilii Mikhaylovich;  
GRAMMATIKOV, A.N., otv. red.; SHMELEV, A.I., red.izd-va;  
MAKSIMOVA, V.V., tekhn. red.

[Handbook on construction on the surface of coal mines]  
Spravochnik po stroitel'stvu poverkhnosti ugol'nykh shakht.  
Moskva, Gosgortekhnizdat, 1962. 299 p. (MIRA 16:3)  
(Mine buildings)

ISLAMOV, K.Sh.

Observations at the Budshakh Seismic Station. Izv. AN Azer. SSR.  
Ser. geol.-geog. nauk no. 1:95-102 '59. (MIRA 12:5)  
(Budshakh--Seismology--Observations)

BAGDASAROVA, A.M.; ISLAMOV, K.Sh.; KORIDALIN, Ye.A.; KUZNETSOV, V.P.;  
KUZ'MINA, N.V.; NENILINA, V.S.; NERSESOV, I.L.; SULTANOVA, Z.Z.;  
KHARIN, D.A.

Seismicity of the eastern part of the southern spurs of the  
Greater Caucasus and some problems of methodology in studying  
the seismicity of individual regions. Report No.1. Izv.AN Azerb.SSR.  
Ser.geol.-geog.nauk no.6:121-131 '59. (MIRA 15:4)  
(Caucasus--Seismology)

BAGDASAROVA, A.M.; ISLAMOV, K.Sh.; KORIDALIN, Ye.A.; KUZNETSOV, V.P.;  
KUZ'MINA, N.V.; NENILINA, V.S.; NERSESOV, I.L.; SULTANOVA, Z.Z.;  
KHARIN, D.A.

Seismology of the eastern part of the southern spurs of the Greater  
Caucasus and some problems of methodology in studying the seismology  
of individual regions: Izv.AN Azerb.SSR, Ser.geol.-geog.nauk no.5:  
21-31 '60. (MIRA 14:5)

(Caucasus--Seismology)

S/169/62/000/004/006/103  
D228/D302

AUTHORS: Bagdasarova, A. M., Islamov, K. Sh., Koridalin, Ye. A.,  
Kuznetsov, V. P., Kuz'mina, N. V., Nenilina, V. S.,  
Nersesov, I. L., Sultanova, Z. Z. and Kharin, D. A.

TITLE: Seismicity of the eastern part of the southerly spurs  
of the High Caucasus Range and some methodical ques-  
tions of the study of the seismicity of separate are-  
as. Communication 3

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1962, 16, ab-  
stract 4A125 (Izv. AN AzerbSSR, ser. geol.-geogr. n.  
i nefiti, no. 4, 1961, 13-24)

TEXT: The hodographs of the earthquakes of the south-western Cau-  
casus are examined together with the results of study of this ter-  
ritory's seismicity. Hodographs for all the main wave-types were  
constructed from the data of strong earthquake observations at  
different seismic stations. The most precise hodograph was obtained  
for four strong Vartashen earthquakes. The records of 62 seismic

Card 1/2

Seismicity of the ...

S/169/62/000/004/006/103  
D228/D302

stations were used for its construction. The thicknesses of the crust (40 km), the granite layer (19 km), and the basalt layer (21 km) were calculated on the basis of this hodograph. The hodographs of other earthquakes were found to be less accurate. It was established from the observations of the 1953 expedition that for an extent of 150 km (from Vartashen to Marazov) the seismic activity of the eastern part of the southerly slopes of the High Caucasus Range is very high. The epicenters and the depths of 213 earthquakes were determined, and a map of the epicenters was prepared. Considerable azimuthal anomalies of seismic waves, spreading along and across the strike of the High Caucasus Range, were exposed. /-Abstracter's note: Complete translation.-/ ✓

Card 2/2



ISLAMOV, K.Sh.

Earthquake of December 1959 at the village of Nasosnyi. Dokl. AN  
Azerb. SSR 20 no.5:23-26 '64. (MIRA 17.8)

1. Institut geologii AN AzSSR. Predstavleno akademikom AN AzSSR  
A.D.Sultanovym.

ISLAMOV, M.

Experience of the "Tatarstan" Collective Farm in obtaining high  
corn yields. Zemledelie 8 no.6:83-84 Ju'60. (MIRA 13:10)  
(Aktaysh District--Corn (Maize))

ISLAMOV, M.F.; KHODZHAYEV, L.Sh.

Regularization of a Chew-Low type equation for the process

$\pi + N \rightarrow 2\pi + N$  in the approximation of a fixed nucleon.

Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 9 no.1:60-68 '65.

(MIRA 18:6)

1. Institut yadernoy fiziki AN UzSSR.

*ISLAMOV, M.I.*

ISLAMOV, M.I.

Phraseological word groups [in Azerbaijani with summary in Russian].  
Inv. AN Azerb. SSR no.11:127-140 '57. (MIRA 11:1)  
(Azerbaijani language--Terms and phrases)

ISLAMOV, M.Sh.

Improved design for a gas burner for drum dryers. Gaz. prom. 10  
no.4:33-34 '65. (MIRA 18:5)

ISLAMOV, N. A.

PHASE I BOOK EXPLOITATION

1160

Islamov, Nasriddin Akhmedovich, Kozachkovskiy, Viktor Andreyevich, Mal'skiy,  
Yakov Isakovich, Promtov, Aleksandr Nikolayevich

Tadzhikskaya SSR; *kratkiy istoriko-ekonomicheskii ocherk* (Tadzhik SSR; Brief Historical and Economic Study) Moscow, Gospolitizdat, 1958. 193 p. 25,000 copies printed.

Ed.: Petrova, S.; Tech. Ed.: Danilina, A.

**PURPOSE:** This book is intended for the general reader.

**COVERAGE:** This book is a popular survey of Tadzhikistan, i.e., mainly of its physical geography, economic situation, history and culture. The section on industries contains economic indices of the growth of industrial output and a number of actual figures; as a rule, however, the information provided on individual factories, projects, and deposits is very superficial. A few good photographs, showing important industrial installations, are given. There are some 50 photographs and 2 maps. No references are given.

**TABLE OF CONTENTS:**

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Tadzhik SSR (Cont.)

1160

I. From the Historic Past (Prior to 1917)	21
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AVAILABLE: Library of Congress

Card 2/2

MM/fal  
2-12-59

ISLAMOVA, N.A., aspirant

Medicinal forms and galenicals from the herbs of some species of woodruff and the badstraw *Galium articulatum* and their effect on the cardiovascular system. Azerb. med. zhur. 41 no.9:33-38 S '64. (MIRA 18:11)

1. Iz kafedry farmakognosii i botaniki (sav. - dotsent I.A. Damirov) tekhnologii lekarstvennykh form i galenovykh preparatov Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova, Baku. Submitted December 7, 1963.



MASSON, M.Ye.; ISLAMOV, O.I., redaktor; MENDOVAR, TS.I., redaktor; SOROKINA,  
Z.I.; tekhnicheskiy redaktor.

[History of mining in Uzbekistan] K istorii gornogo dela na  
territorii Uzbekistana. Tashkent, Izd-vo Akademii nauk USSR,  
1953. 73 p. (MLA 9:5)  
(Uzbekistan--Mines and mineral resources)

ISLAMOV, O. I.

"Undertakings to Preserve and Document Ancient and Middle-Ages Mines"  
Trudy Sredneaz un-ta, Geol. n., Bk. 5, 1954, 97-102

The author characterizes certain undertakings recommended in the execution of geological prospecting and surveying operations in the regions of ancient workings in the territory of Central Asia. (RZhGeol, No 6, 1955)

SO: Sum-No 787, 12 Jan 56

ISLAMOV, O.I.

Measures for preserving and documenting ancient and medieval mines.  
Trudy SAGU no.52:97-102 '54 (MLBA 10:5)  
(Mineral industries--History)

ISLAMOV, O.I.

Mining and geological concepts of Central Asiatic peoples from  
ancient times to the 18th century. Och.po ist.geol.znan. no.4:  
42-69 '55. (MLBA 9:5)  
(Soviet Central Asia--Mineral industries--History)

15-57-1-759

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,  
p 120 (USSR)

AUTHOR: Islamov, O. I.

TITLE: The Cultural History of Stones in Central Asia (Iz  
istorii kul'tury kamnya v Sredney Azii)

PERIODICAL: Zap. Uzbekist. otd. Vses. mineralog. o-va, 1955,  
Nr 8, pp 181-187.

ABSTRACT: From earliest times stones have been used by the  
peoples of Central Asia: in primitive society as the  
material for making weapons (flint, jasper, quartzite,  
and quartz); ceramic products (clay), and for ornaments  
(serpentine, chalcedony, and agate). In the slave-  
holding period, lazurite, spinel, and turquoise were  
used for ornaments; gypsum and limestone were used as  
decorative ashlar; marble and clay were employed in  
sculpture; and granite, marble, limestone, loess, and  
gypsum found use as building stone. Mining developed  
in the feudal society. The mines of Central Asia

Card 1/2

15-57-1-759

The Cultural History of Stones in Central Asia (Cont.)

produced silver, lead, gold, copper, mercury, antimony, tin, sulfur, alum, clays, colored stones, and gems. The conquest of Central Asia by the Mongols was a blow to the development of mining; only small quantities of colored stones and gems were extracted. The annexation of Central Asia to Russia proved to be a positive influence on the development of mining, but only after the socialist revolution did the extraction and development of mineral deposits in Central Asia become very extensive.

Card 2/2

G. N. A.

ISLAMOY, O.I.

Origin of geological knowledge in Central Asia. Trudy Inst.geol.AN  
Us.SSR no.13:3-60 '56. (MLA 10:2)  
(Soviet Central Asia--Geology)

ARTOBOLVSKIY, I.I., akademik; KUDRYAVTSEV, P.S., prof.; OGORODNIKOV, K.F.,  
prof.; RZHONSNITSKIY, B.N., kand. tekhn. nauk; DOROGOV, A.A., kand.  
tekhn. nauk; VASIL'YEV, I.G., kand. tekhn. nauk; ISLAMOV, O.I., kand.  
geol.-miner. nauk; LEONOV, N.I., prof.; RADKOVICH, Ya.A., doktor geol.-  
miner.nauk; KUZNETSOV, B.G., prof.; MARIYENBAKH, L.M., prof.;  
RUBINSHTEYN, M.I., prof.; KALMYKOV, K.F., kand. biol. nauk;  
KONFEDERATOV, I.Ya., prof.; KOZLOV, A.G.; ZUSOV, V.P., prof.;  
IMSHINETSKIY, A.A.; DORFMAN, Ya.G., prof.; SHUKHARDIN, S.V., kand.  
tekhn.nauk; KEDROV, B.M., prof.; DANILEVSKIY, V.V., akademik; SHATSKIY,  
N.S., akademik; BYKOV, K.M., akademik.

Speeches. Vop. 1st. est. i tekhn. no.6:111-141 '59.

(MIRA 12:6)

1. Chlen-korrespondent AN SSSR (for Imshinetskiy). 2. AN USSR  
(for Danilevskiy).

(Science) (Technology)



ISLAMOV, O.I.

Discovering remains of old mining sites in the republics of Central Asia in 1955. Trudy Inst.ist.i tekhn. 33:192-200 '60.

(MIRA 13:8)

(Soviet Central Asia--Mines and mineral resources)

ISLAMOV, O. I.

Doc Geol-Min Sci - (diss) "Origin and growth of geological knowledge in Central Asia from the most ancient times until the beginning of the XIX century." Moscow, 1961. 42 pp; (Ministry of Higher and Secondary Specialist Education USSR, Moscow State University M. V. Lomonosov); 250 copies; price not given; list of author's works on pp 40-42 (16 entries); (KL, 6-61 sup, 201)

ISLAMOV, O.I.; PETROV, N.P.

Aleksei Nikolaevich Chistiakov; 75th anniversary of his birth and  
the 10th anniversary of his death. Uzb. geol. zhur. 8 no.5:84-85  
'64. (MIRA 18:5)

UKLONSKIY, A.S.; GOLUBKOVA, Ya.M.; ISLAMOV, O.I.

Trends in the research of the Department of Geology of the Tashkent State University. Nauch. trudy TashGU no. 249. Geol. nauki no. 21:3-15  
'64. (MIRA 18:5)

ISLAMOV, R.M., red.; MAKAROVA, A.M., tekhn. red.

[Artificial leather] Kosha iskusstvennaia. Izd. ofitsial'-  
noe. Moskva, Standartgiz, 1962. 58 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izme-  
ritel'nykh priborev.

(Leather, Artificial--Standards)

ISLAMOV, R.M., red.; MATVEYEVA, A.Ye., tekhn. red.

[Cotton fabrics and piece goods] Tkani khlochatobumazhnye i  
shtuchnye izdeliia. Izd. ofitsial'noe. Moskva, Standartgiz,  
1962. 155 p. (MIRA 16:6)  
(Textile industry--Standards)

ISLAMOV, R.M., red.; MATVEYEVA, A.Ye., tekhn. red.

[Woolen fabrics and piece goods] Tkaní sherstiane i shtuchnye izdeliia. Izd. ofitsial'noe. Moskva, Standartgiz, 1962.  
115 p. (MIRA 16:2)

(Textile fabrics--Testing)

(Woolen and worsted manufacture--Standards)

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,  
p 183 (USSR) 14-57-7-15381

AUTHOR: Islamov, S.

TITLE: Prospects for the Development of Animal Husbandry in  
Issyk-Kul' Oblast (Perspektivy razvitiya zhivotnovod-  
stva v Issyk-Kul'skoy oblasti)

PERIODICAL: S. kh. Kirgizii, 1956, Nr 12, pp 43-36

ABSTRACT: The author lists the causes delaying quick development  
of animal husbandry on each 100 hectares of agri-  
cultural land and makes recommendations on how to  
overcome them.

Card 1/1

No name



ISLAMOV, Sh.

Let's increase production of general consumers' goods.  
Sov.torg. no.6:58 Je '58. (MIRA 13:2)

1. Upravlyayushchiy Uzbekskoy respublikanskoy kontoroy  
Glavkul'ttorga.  
(Uzbekistan--Retail trade)

22330

S/167/61/000/001/003/004

A104/A133

9.7/60

AUTHORS:

Islamov, S. I., Pulatov, I.

TITLE:

Alterations in the block scheme of the cyclic operation of the control device of the "Ural" Computer

PERIODICAL:

Izvestiya Akademii nauk UzSSR. Seriya tekhnicheskikh nauk, no. 1, 1961, 58 - 66

TEXT:

The author describes some modifications carried out in the "Ural" electric computer which performs computations with fixed or floating points. In the latter case the computer carries out the function with mantissa and number order. An example demonstrates the adjustments of cyclic operation block ensuring that the number of cycles of complete and incomplete variable addresses during one operation should be  $\frac{n_1}{2} + 1 = n_2 + 1$  or  $\frac{n_1}{2} = n_2$  (1)

The content of the cycle counter is divided by two and is transcribed onto the instruction register. On binary computers the operation is simple since the division is performed automatically by transcribing the entire cycle counter content onto the instruction register and shifting to the right by one digit. For this

Card 1/6 3

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Alteration in...

S/167/61/000/001/003/004  
A104/A133

According to the new system in cycles with mixed addresses and repeated instructions the value  $n$  remains unchanged for all instructions and the addresses may be complete or incomplete. The completeness characteristic of value  $n$  retains its effect. The functional circuit of the modified block of cyclic operation is shown in Figures 2 and 3 [Abstractor's note: in Figure 2 entries have been corrected to read: amplifier  $\gamma - 06$  (U - 06) controls direct transcription valves 11K-30. On C62 - 31 (Sb 2 - 31) "0"-11 p. Pz. K. should read "0"-12 p. Pz. k]. Figure 4 shows the computation process involving the determination of the number of maximum absolute value. As noted, there is no entry on the cycle counter from the 12th instruction register digit onwards. However, for problems with cyclic operation 25 2000 where there should be 4000 in the address area after shifting along the instruction register, blocking of the 12th digit would lead to errors as here it represents a number. Such errors are prevented by C74 - 24 (Sp 4 - 24). In view of these results 14 - C73 - 24 (14 - Sp 3 - 24) which had controlled the conversion of the 1st digit of the cyclic operation counter was removed, whereas 14 - 2K - 15 (14 - 2K - 15) and 14 - C62 - 17 (14 - Sb2 - 17) were converted into 14 - K - 15 and 14 - C6 - 17 (14 - Sb - 17). There are 4 figures and 1 table.

Card 3/6

*Institute of Mathematics in V.I. Romanovsky  
of the Academy of Sciences, USSR*

ABDULLAYEVA, Kapiya Sher'yazdanovna; ISLAMOV, S.U., red.;  
BEYSHENOV, A., tekhn. red.

[Put hidden potentialities of production in the service of  
the people] Rezervy proizvodstva - na sluzhbu narodu. Frunze,  
Kirgizgosizdat, 1962. 73 p. (MIRA 15:7)  
(Kirghizistan-Clothing industry)

ISLAMOV, T. M.

USSR/Scientific Organization - Conferences

Card 1/1      Pub. 124 - 18/32

Authors      : Islamov, T. M.

Title        : ~~Scientific sessions, conferences and meetings~~  
Scientific sessions, conferences and meetings

Periodical   : Vest. AN SSSR 25/6, 88-89, June 1955

Abstract    : Minutes are presented of the extraordinary plenum held during March 31 and April 1, 1955 at the Institute of Historical Sciences honoring the tenth anniversary of the liberation of Hungary by the Red Army.

Institution : .....

Submitted   : .....

S/169/62/000/003/072/098  
D228/D301

AUTHORS: Burkova, M. V. and Islamova, D. A.

TITLE: Aeroclimatography of the tropical tropopause over Central Asia in summertime

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1962, 42, abstract 3B321 (Tr. Sredneaz. n.-i. gidrometeorol. in-ta, no. 4(19), 1961, 126-128)

TEXT: Maps of the tropopause's topography in the summer seasons (June-August) of 1958 and 1959 are examined together with one of the relative positions of the tropical tropopause and the maximum wind level. The height of the tropical tropopause increases southwards and varies from 14.1 to 17.6 km; its temperature drops from -56.8 to -70.4°. It is noted that a ridge of tropopause contour-lines tends to form in the east of Central Asia, while a trough develops in the center and in the west. On an average the maximum wind layer is situated below the tropopause. [Abstracter's note: Complete translation.]

Card 1/1

POLAND

ALIEV, R.K., DAMIROV, I.A., and ISLAMOVA, N.A.; Chair of Pharmacognosis and Technology of Drug Forms and Galenic Preparations, Azerbaijan Medical Institute im. N. Narimanov [Original-language version not given]

"Some Plants of the Azerbaijan SSR Containing Coumarin and Its Derivatives and Their Use in Therapeutics."

Warsaw, Farmacja Polska, Vol 19, No 15-16, 25 Aug 63, pp 317-325

Abstract: Azerbaijan has a rich flora containing coumarin and its derivatives. The article discusses concisely the physical and chemical properties of these substances, and lists the methods for their derivation, synthesis, and determination. It gives the molecular structure and reaction patterns, and discusses individually the derivatives found in the plants, grouped under oxy- and furocoumarins, as well as their biological effects and uses in medicine. Two large tables are given, one for the plants containing coumarin and the other for plants containing coumarin derivatives, showing the Latin and Polish names of the plant, part in which substance found, active ingredient, and use in official and popular medicine. List of references with authors.

1/1

ALIJEV, R.K. [Aliyev, R.K.]; DAMIROW, I.A. [Damirov, I.A.]; ISLANOWA,  
N.A. [Islamova, N. A.];

Some plants from the Azerbaijan S.S.R. containing coumarin  
and its derivatives as well as their use in therapeutics.  
Farmacja Pol 19 no. 15/16:317-325 25 Ag '63.

1. Katedra Farmakognozji i Technologii Postaci Lekow i  
Preparatow Galenowych Azerbajdzanskiego Instytutu  
Medycznego im. N. Narimanowa.



ISLAMOVA, N.A.

Pharmacognostic study of some species of woodruff and bedstraw  
of the Azerbaijan flora. Azerb.med.zhur. 42 no.1:38-42 Ja '65.  
(MIRA 18:5)

ISLAMOVA, N.A.

Pharmacognosy of some species of woodruff from the flora of  
Azerbaijan. Apt.delo 14 no.2:25-31 Mr-Ap '65.

(MIRA 19:1)

1. Azerbaydzhanskiy meditsinskiy institut imeni N.Narimanova, Baku.  
Submitted December 13, 1963.

VETYUKOV, M.M.; ISLAMOVA, R.G.; CHUVILYAYEV, R.G.

Anode consumption during aluminum electrolysis. Izv.vys.ucheb.  
zav.; tsvet.met. 5 no.3:80-88 '62. (MIRA 15:11)

1. Leningradskiy politekhnicheskii institut, kafedra elektropiro-  
metallurgii tsvetnykh metallov.  
(Aluminum--Electrometallurgy)

ISLAMOVA, Kh.Z., inzh.

Rotor disengaging clutch. Bezop.truda v prom. 6 no.6:24 Je '62.  
(MIRA 15:11)

(Clutches (Machinery))

ISKENDER-ZADE, A.M.; AMETOV, M.Yu.; ASRIYAN, V.A.; ESIBYAN, H.M.; ISLAM-ZADE,  
A.Z.

Progressive welding and cutting methods used at the October  
Revolution Plant (Baku) for manufacturing oil-field stop gates.  
Azerb. neft. khoz. 37 no.5:44-46 My '58. (MIRA 11:8)  
(Oil fields—Equipment and supplies)



AUTHORS: Meyerson, G. A., Islankina, A. F.

SOV/89-5-2-9/36

TITLE: Metallic Thorium (Metallicheskiy toriy)

PERIODICAL: Atomnaya energiya, 1958, Vol. 5, Nr 2, pp. 155-165 (USSR)

ABSTRACT: A report is given on Soviet investigations dealing with the production of compact thorium by means of the powder-metallurgical method. The physico-chemical properties and the characteristics of the pressing of electrolytically- or calcium-reduced thorium powder are given. Calcium-reduced powder is less easily compressed than electrolytical thorium powder as it has a lower bulk weight and a higher content of oxide films. The main factors which are decisive for the sintering process are dealt with theoretically. Experimentally the changing of the strength and plasticity of the compact thorium from electrolytically- or calcium-reduced produced powder, in dependence on the sintering process and time, is determined. Briquettes made from calcium-reduced powder without porosity change their shape considerably during sintering at temperatures of more than 1 150 - 1 200°C. This is due to the high degree of volatilization of the calcium.

Card 1/4

Metallio Thorium

SOV/89-5-2-9/36

For the purpose of obtaining compact thorium metal from calcium-reduced powder, the sintered briquettes must be pressed cold a second time, after which they are annealed. The following physical and mechanical properties of powder-metallurgical thorium were found:

	electrolytical thorium	calcium-reduced thorium
Structure of the lattice at 20°C	face-centered	cubic
Lattice spacing kX		5,07
Actual density g/cm <sup>3</sup>		11,75
Melting temperature °C		1700 ± 20
Electric conductivity Ω.cm		~ 5 · 10 <sup>4</sup>
Specific electric resistance Ω.cm		18 ÷ 20 · 10 <sup>6</sup>
Thermal conductivity kcal/m.h.°C	37 (103	$\frac{\text{cal}}{\text{sec.cm}^{\circ}\text{C}})$

Card 2/4



Metallio Thorium

SOV/89-5-2-9/36

	electrolytical thorium	calcium-reduced thorium
Linear coefficient of dilatation 0-100°C	11,3 ÷ 11,5 · 10 <sup>-6</sup>	
Linear coefficient of dilatation 100-800°C	16,3 - 16,5 · 10 <sup>-6</sup>	
Micro strength kg/mm <sup>2</sup>	55-75	-
Density of the compact metal g/cm <sup>3</sup>	11,60	11,5
Strength H <sub>B</sub> kg/mm <sup>2</sup>	50	70
Tensile strength σ <sub>b</sub> kg/mm <sup>2</sup>	16,5	22
Stretching strain limit σ <sub>s</sub> kg/mm <sup>2</sup>	8	13
Specific elongation δ %	35-43	17-23
Specific narrowing ψ %	25-31	-
Impact strength α <sub>k</sub> kg.m/cm <sup>2</sup>	1,35	1,14
There are 11 figures, 2 tables, and 22 references, 8 of which are Soviet.		

Card 3/4

ISLANKINA, T. F.

KHALUGA, Anton Kus'mich, inzhener, laureat Stalinskoy premii; IS-  
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